

SAM-0496

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

	NEW APPLICATION	TRANSMITIAL
Transmitted he	erewith for filing is the patent application of	
Inventor(s):	Young-Kyun Cho	
For (title):	DIFFERENTIAL CHARGE PUMP AND METHOD THEREFOR, AND PHASE LOCKED LOOP AND METHOD THEREFOR USING THE PUMP AND METHOD	CERTIFICATE OF MAILING 37 C.F.R. § 1.10  "Express Mail" Mailing Label Number EV322656661US  I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for
1. <b>Type</b> a(n)	of Application This new application is for	Patents, P.O. Boy 1450, Alexandria, Virginia 21313-1450.  Date: O-24-03
. × O	riginal (nonprovisional)	AmyGreen
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$\square$ D	rivisional.	
□с	ontinuation.	
□ <sub>C</sub>	ontinuation-in-part (C-I-P).	
2. Benefit o	of Prior Application(s)	
	he new application being transmitted claims th Item 7.	e benefit of prior Korean application nos. <u>03-2528.</u>
3. Papers	Enclosed	•
	Pages of specification	
	Pages of claims	
1_	Page of Abstract	·
5	Sheets of drawings  I formal	
	informal Page of Cover Sheet	
	closed drawing(s) are photograph(s), and there	

4.	Addit	ional papers	enclosed					
		Preliminary	Amendment					
	$\boxtimes$	Information	Disclosure Statement	(37 C.F.R. 1.98)				
	. 🛛	Form PTO-1	449 (PTO/SB/08A and	d 08B)		• .		
	$\boxtimes$	Copies of cit	ed references			· (C)	•	
		Declaration of	of Biological Deposit					
			of "Sequence Listing," y invention containing				pertaining t	hereto for
		Authorizatio	on of Attorney(s) to Ac	cept and Follow	Instructions	from Represen	tative	·
		Special Com	nments					
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5.	Dec	laration or oa	un -				•	
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		□ Unexec	uted		•			· ·
			ed by	•				
-		×	inventors			. •		•
-	*		legal representative of 37 CFR 1.42 or 1.43		•			
			joint inventor or pers		roprietary into	erest on behalf	of inventor	who refused
	:		This is the petition re is also attached. See	equired by 37 C		he statement re	quired by 3	7 CFR 1.47
		Not Enclose						
••		Application i inventor(s).	s made by a person au  Showing that the fili			1 (c) on behalf	of all the ab	ove named
				J				
6.	Assio	nment						•
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	×	An assignmen	nt of the invention to	Samsung Ele	ctronics Co.,	Ltd.		
	, •		ed. A separate 🗖 "CO MPANYING NEW PA low.					attached.

# 7. Certified Copy

Certified copy(ies) of application(s)

	Korea	03-2528	January 14, 2003	
	Country	Appln. no.	Filed	
			·	
•	Country	Appln. no.	Filed	
•				
	Country	Appln. no.	Filed	

from which priority is claimed

- is (are) attached.
- □ will follow.

# 8. Fee Calculation (37 C.F.R. 1.16)

		CLA	IMS AS FILED		
1	Number file	e <b>d</b>	Number Extra	Rate	Basic Fee 37 C.F.R. 1.16(a) \$770.00
Total Claims (37 CFR 1.16(c))	12	- 20 =	0	\$ 18.00	
Independent Claims (37 CFR 1.16(b))	4	- 3 =	1	\$ 86.00	\$86.00
Multiple dependent claim(s if any (37 CFR 1.16(d))	),		+	\$290.00	

☐ A Preliminary Amendment is enclosed.	The filing fee is calculated based on
the status and number of claims remaining	ng after entry of the Preliminary Amendment.
□ A 4 4 .1 .4	

- ☐ Amendment deleting multiple-dependencies is enclosed.
- ☐ Fee for extra claims is not being paid at this time.

Filing Fee Calculation

\$ 856 00.

<ul> <li>□ Not Enclosed</li> <li>□ No filing fee is to be paid at this time.         (This and the surcharge required by 3 7 C. F.R. 1.16(e) can be paid subsequently.)</li> <li>☑ Enclosed</li> <li>☑ Basic filing fee</li> <li>☑ Recording assignment         (\$40.00; 37 C.F.R. 1.21(h))         (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)</li> </ul>	
(This and the surcharge required by 3 7 C. F.R. 1.16(e) can be paid subsequently.)  Enclosed  Basic filing fee  \$856.00  Recording assignment (\$40.00; 37 C.F.R. 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT	
Basic filing fee \$856.00  Recording assignment (\$40.00; 37 C.F.R. 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT	
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(\$40.00; 37 C.F.R. 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT	-
110001111111111111111111111111111111111	<u>-</u>
Total fees enclosed \$_896.00	
10. Method of Payment of Fees	
☐ Checks in the amounts of \$_856.00, 40.00	•
Charge Account No. 50-1798 in the amount of \$  A duplicate of this transmittal is attached.	

## 11. Authorization to Charge Additional Fees

X	The Commissioner to meson, and an arrange and a series of the series of
•	of this application to Account No. 50-1798.
	⊠ 37 C.F.R. 1.16(a), (f) or (g) (filing fees)
	☑ 37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims)
	☐ 37 C.F.R. 1. 1 6(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
	☐ 37 C.F.R. 1.17 (application processing fees)
	☐ 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b))

# 12. Instructions as to Overpayment

- ☐ Credit Account No. 50-1798
- □ Refund

Date: October 24, 2003 MILLS & ONELLO LLP

Eleven Beacon Street, Suite 605

Boston, MA 02108

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Respectfully submitted,

Steven M. Mills

Registration Number 36,610 Attorney for Applicants

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### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Young-Kyun Cho

Filing Date:

Herewith

Title:

DIFFERENTIAL CHARGE PUMP AND METHOD THEREFOR, AND PHASE

LOCKED LOOP AND METHOD THEREFOR USING THE PUMP AND

**METHOD** 

### CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.10

"Express Mail" Mailing Label Number EV322656661US I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to Mail Stop Patent Application, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

#### TRANSMITTAL LETTER

Sir:

Enclosed herewith for filing in the above-identified patent application please find the following listed items:

- 1. New Application Transmittal;
- New Patent Application; 2.
- Executed Declaration, Petition and Power of Attorney; 3.
- Five (5) Sheets of Formal Drawings (Figures 1-5); 4.
- Certified Copy of Priority Document Korean Application No. 03-2528; 5.
- Check in the amount of \$856.00 to cover application filing fee; 6.
- 7. Information Disclosure Statement;
- PTO-1449 form and copy of cited reference AA; 8.
- Assignment Recordation Form Cover Sheet - PTO-1595; 9.
- 10. Executed Assignment;
- 11. Check in the amount of \$40.00 to cover Assignment recordation fee; and
- 12. Return Postcard.

In connection with the foregoing matter, please charge any additional fees which may be due, or credit any overpayment, to Deposit Account Number 50-1798. A duplicate copy of this letter is provided for this purpose.

Respectfully submitted,

Date: (1) ctole 24, 2003 Mills & Onello LLP

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